A.D. 1783 . . . . . N° 1361.

SPECIFICATION

OF

JOSEPH LANGMEAD.

FIRE GRATE AND COOKING APPARATUS.

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LANGMEAD'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JOSEPH LANGMEAD, of Goswell Street Road, in the Parish of Saint Luke, in the County of Middlesex, Smith and Iron Founder, send greeting.

WHEREAS His most Excellent Majesty King George the Third, by His Royall Letters Patent under the Great Seal of Great Britain, bearing date at Westminster, the Twenty-fifth day of March, in the twenty-third year of His reign, did give and grant unto me, the said Joseph Langmead, my executors, administrators, and assigns, His special licence, full power, sole priviledge and authority, that I, the said Joseph Langmead, my executors, administrators, and assigns, and every of them, by myself and themselves, or by my and their deputy or deputies, servants, or agents, or such others as I, the said Joseph Langmead, my executors, administrators, or assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term of years therein expressed, should and lawfully might make, use, exercise, and vend, within that part of His Kingdom of Great Britain called England, His Dominion of Wales, and Town of Berwick upon Tweed, my Invention of "A METHOD OF MAKING AND MANUFACTURING OF FIRE GRATES ON A NEW CONSTRUCTION AND PRINCIPLE," in such manner as to me, the said Joseph Langmead, my executors, administrators, or assigns, or any of them, should in my or their discretion seem meet; and that I, the said Joseph Langmead, my executors, administrators, and assigns, should and lawfully might have and enjoy the whole profit, benefit, commodity, and advantage from time to time coming, growing, accruing, and arising by reason

of the said Invention, for and during the term of years therein mentioned, to have, hold, exercise, and enjoy the said licence, powers, priviledges, and advantages therein-before granted or mentioned to be granted to me, the said Joseph Langmead, my executors, administrators, and assigns, for and during and unto the full end and term of fourteen years from the date of the said Letters Patent next and immediately ensuing, and fully to be compleat and ended according to the Statute in such case made and provided; in which said Letters Patent is contained a proviso that if I, the said Joseph Langmead, should not particularly describe and ascertain the nature of my said Invention, and in what manner the same is to be performed, by an instrument in writing under my hand and seal, and cause the same to be inrolled in His Majesty's High Court of Chancery within four calender months next and immediately after the date of the said Letters Patent, that then the said Letters Patent, and all liberties and advantages whatsoever thereby granted, should utterly cease, determine, and become void, anything therein-before contained to the contrary thereof in anywise notwithstanding, as in and by the said Letters Patent (reference being thereunto had) may more fully and at large appear.

NOW KNOW YE, that in compliance with the said proviso, I, the said Joseph Langmead, do hereby describe and ascertain the nature of my said Invention, and in what manner the same is to be performed, in manner following (that is to say):—

These fire grates are for the use of cooking either in kitchens, or in camps, or in ships. They bake, boil, and roast with one and the same fire, and are a great relief against smoaky chimneys. They have a range of bars in front for the fire, and form a frame nearly four square in front of any chimney. One side of the frame or front is an oven, which stands part over the range barrs. Above the oven is a closett, which is kept hot with the same fire as heats the oven. This oven is of an angeler form at bottom, which being placed over a part of the fire obliges the fire to circulate round on the extreme parts of the oven, and keeps the same in a regular heat. The top of the oven is either of a sexagon or cylindrical form; at the back of the oven is a funnell, which conveys the smoak into the flue of the chimney. The front of the oven shews the nature of the flue round the same. It has in it one hole on each corner, for the purpose of cleaning the soot from the oven. The other side of the front or frame contains a boiler which boils, being placed part over the range bars, and is heated by the same fire. The boiler has an open chanell or flue all round it. At the back end of the boiler is a flat funell, which carries the smoak into the flue of the chimney. This boiler is of cast iron or of copper;

it has a framed closet above it, which keeps out the dust or soot, and incloses the steam from going into the room. In this closet is a hole on one side, to let the steam into the chimney. In the cast-iron boiler is a screw socket, cast for the use of a cock, which may be screwed on and off at pleasure. From the top of the hot closet in front to the top of the steam closet is a plate of iron from one to the other, which forms the whole into a square frame and incloses the whole opening of the chimney. The sides of the flew or channel round the oven and boiler are cast iron; the back of the range is of the same mettle. The range part for the fire hath a bar on the top to let down or to draw out, to form a double bar for the use of setting saucepans, &c. on it. The range hath two cheeks, which wind up on each side to shift the fire under the oven or boiler, or both, at pleasure. This fire grate, when for the use of camps or ships, hath an iron or copper funell to carry the smoak off, it being inclosed at the back with cast or hammered iron above the back of the range, which is of cast iron.

In witness whereof, I, the said Joseph Langmead, have hereunto set my hand and seal, the Sixteenth day of July, in the twenty-third year of the reign of our Sovereign Lord George the Third, by the grace of God of Great Britain, France, and Ireland King, Defender of the Faith, and so forth, and in the year of our Lord One thousand seven hundred and eighty-three.

JOSEPH (L.S.) LANGMEAD.

AND BE IT REMEMBRED, that on the same Sixteenth day of July, in the year above mentioned, the aforesaid Joseph Langmead came before our Lord the King in His Chancery, and acknowledged the Specification aforesaid, and all and everything contained and specified, in form above written. And also the Specification aforesaid was stampt according to the tenor of the Statute made in the sixth year of the reign of their late Majestys King William and Queen Mary of England, and so forth.

T. ANGUISH.

Inrolled the same Sixteenth in of July, in the year above mentioned.

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